

SIRECON 40-4 HDR

AX

Service (1)

Adjustment Instructions

I.I. Power Supplies 40-4 HDR

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Remarks

- These instructions apply to the following I.I. power supplies 40-4 HDR:
- 38 29 103 X2181
- No adjustment is needed when there is replacement of the complete image intensifier unit with the I.I. power supply at the customer's location.
- An adjustment is necessary only after a replacement of the power supply.

Required Documents

- Wiring Diagram, X2181
- Image intensifier test certificate

Required Test Equipment

- Digital multimeter (DVM), e.g. Fluke 8060A

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Adjusting the 40-4 HDR I.I. Power Supply

- The control and adjustment component of the I.I. power supply is adjusted at the factory along with the high voltage components. These work steps cannot be carried out in the field.
- This means that if there is a defect of the control and adjustment component or of a high voltage component, the complete I.I. power supply must be replaced.
- The 40-4 HDR power supply is mounted on a bracket and can only be replaced completely.

General

- Use the voltage values given in the test certificate to check or reset the adjustment parameters of the I.I..
- The voltages are set in the factory for the replacement I.I..

Setting the I.I. voltage levels (refer to circuit diagram X2181).

NOTICE

For optimal adjustment of the I.I., the reference voltage values given in the I.I. test certificate for the individual electrodes have to be set at the power supply.

After you switched on the power supply, wait 10 minutes before you begin setting the voltage values.
(Perform only when the power supply is being replaced).

- Volt. 27V DMM at M_P 27V to M_P Gnd (for Zoom 3)
Verify or set 27V .
- MA Anode: DMM at M_P UAD
Use pot U_{Ad} (set nominal MA value according to test certificate).
- ME_3 DMM at M_P UE3
Use pot $UE3_{N-Z3}$ for all formats (set nominal values according to test certificate).
- ME_{2A} DMM at M_P UE2A
Use pot $UE2A_{N-Z3}$ for all formats (set nominal values according to test certificate).
- ME_{2B} DMM at M_P UE2B
Use pot $UK2B_{N-Z3}$ for all formats (set nominal values according to test certificate).
- ME_{1A} DMM at M_P UE1A
Use pot $UE2A_{N-Z3}$ for all formats (set nominal values according to test certificate).
- ME_{1B} DMM at M_P UE1B
Use pot $UE1B_{N-Z3}$ for all formats (set nominal values according to test certificate).
- You do not have to perform the image quality (IQ) test after you replaced the power supply and set the voltage values.

Getting the Image Intensifier

The I.I. is switched to continuous gettering.

- If there is a resolution problem with the image intensifier, the voltage values must be checked per the test certificate, and if needed, must be readjusted.
- It is particularly important to check the lead connections from the I.I. power supply to the image intensifier; make sure there is good contact.
- When plugging in the high voltage connector, the creep paths must be clean. If necessary, clean them with ether; do not use alcohol.
- If there really is a malfunction in the I.I. power supply, the complete power supply must be replaced (high voltage components with control and adjustment component)!

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No changes; initial publication

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